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APPLICATION NO	HUNG DATI	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO	CONFIRMATION NO
09 004,395	01 08 1998	ROBERT D. GILMORF JR.	97,429	1172
20306	590 01 22 2003			
MCDONNELL BOEHNEN HULBERT & BERGHOFF			EXAMINER	
300 SOUTH WACKER DRIVE SUITE 3200 CHICAGO, IL 60606		MINNIFIELD, NITA M		
			ARTUNII	PAPER NUMBER
			1645 DATE MAILED: 01-22-2003	96

Please find below and or attached an Office communication concerning this application or proceeding.

	Application	n No.	Applicant(s)			
	09/004,395	5	GILMORE ET AL			
Office Action Summary	Examiner		Art Unit			
	, N. M. Minni	field	1645			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR R THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 Clafter SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days. - If NO period for reply is specified above, the maximum statutory provided to reply within the set or extended period for reply will, by any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b) Status	ON. FR 1.136(a). In no even on , a reply within the statut period will apply and will statute, cause the applic	it, however, may a reply be time ory minimum of thirty (30) days expire SIX (6) MONTHS from to ation to become ABANDONED	will be considered timely. ne mailing date of this communication. (35 U.S.C. § 133).			
1) Responsive to communication(s) filed on	n <u>23 October 200.</u>	<u>2</u> .				
2a)☐ This action is FINAL . 2b)⊠	This action is r	non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4) Claim(s) 15-17,21-26,28 and 29 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊡ Claim(s) <u>15-17,21-26,28 and 29</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement. Application Papers						
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12)☐ The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
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$(\alpha,\beta) = A + A A + A A + A A + A A + A A + A A A + A$						
Attachment(s)						
1) Notice of References Cited (PTO-892) Discrete Traffsperson's Patent Drawing Review (PTO 948)	د	4 🔃 Interview Summar, 5 🗍 Notice of Informal P	PTC-413 Paper Nois			

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DETAILED ACTION

Response to Amendment

- 1. Applicants' amendment filed October 23, 2002 is acknowledged and has been entered. Claims 14 and 20 have been canceled. Claims 15, 16, 21-24 and 26 have been amended. Claims 15-17, 21-26, 28 and 29 are now pending in the present application. All rejections have been withdrawn in view of Applicants' amendment. The following office action is non-final.
- 2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 3. Claims 15-17, 21-26, 28 and 29 are rejected under 35 U.S.C. 102(a or b) as being anticipated by Ge et al, 1997 (J. Bacteriology).

The claims (products and product by process) are directed to a recombinant FlaA protein; the protein has a defined amino acid sequence. The claims also set forth a fusion protein and that the transformed host in the recombinant process is *E. coli*.

Ge et al (J. Bacteriology, 1997) disclose a flagellin protein, FlaA, from B. burgdorferi having a molecular weight of 38 kD (abstract; p. 552). A lysate of B. burgdorferi showed strong reactivity to a protein of 38.0 kDa, which is consistent with the expression of flaA in growing cells (abstract). Ge et al disclose the protein seguence of the FlaA protein as well as the DNA sequence (Figure 1) and

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segment and a signal peptidase I cleavage site; after cleavage the mature protein has a molecular weight of 36 kD (p. 553). Western blot analysis of cell lysates of B. burgdorferi indicates that a single band of approximately 38.0 kD reacted with antiserum (figure 5; p. 555). The prior art anticipates the claimed invention.

The prior art discloses the amino acid sequence as claimed, SEQ ID NO:2; the conditions for preparing the FlaA protein are not relevant to the pending claims as they are directed to products.

4. Applicant's arguments filed June 25, 2001 have been fully considered but they are not persuasive. It is noted that this response to Applicants' arguments only addresses the arguments as they pertain to Ge I (J. Bacteriology, 1997). Applicants have argued that Ge I does not disclose, expressly or imply, the utility of FlaA protein as a diagnostic reagent. It is noted that the claims are directed to a product comprising a FlaA protein which the prior art discloses. The claims are not directed to methods of making or methods of diagnosis. In response to applicant's argument that a diagnostic reagent is not disclosed, a recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim. In a claim drawn to a process of making, the intended use must result in a manipulative difference as compared to the prior art. See In re Casev 152 USPQ 235 (CCPA 1967) and In re

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composition and its properties are inseparable. Therefore, if the prior art teaches the identical chemical structure, the properties applicant discloses and/or claims are necessarily present. *In re Spada*, 15 USPQ2d 1655, 1658 (Fed. Cir. 1990). See MPEP 2112.01.

In response to applicant's arguments, the recitation of diagnostic reagent has not been given patentable weight because the recitation occurs in the preamble. A preamble is generally not accorded any patentable weight where it merely recites the purpose of a process or the intended use of a structure, and where the body of the claim does not depend on the preamble for completeness but, instead, the process steps or structural limitations are able to stand alone. See *In re Hirao*, 535 F.2d 67, 190 USPQ 15 (CCPA 1976) and *Kropa v. Robie*, 187 F.2d 150, 152, 88 USPQ 478, 481 (CCPA 1951). Further, preambles describing the use of an invention generally do not limit the claims because the patentability of apparatus or composition claims depends on the claimed structure, not on the use or purpose of that structure. *In re Gardiner*, 171 F.2d 313, 315-16, 80 USPQ 99, 101 (CCPA 1948).

It is also noted that the recitation of "recombinant" is viewed as a process limitation.

Applicants have asserted that Ge I must be enabling and describe the claimed invention sufficiently to have placed it in the possession of a person of ordinary skill in the field of the invention; Ge I does not teach one of skill in the art how to accomplish a diagnostic assay with FlaA as a reagent or how to analyze

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results and data of such assay. The claims are directed to a FlaA protein, which the prior art discloses. It is noted that a claim is anticipated if each element of the claim is found (in this case the FlaA protein), either expressly described or under principles of inherency, in a single prior art reference, or that the claimed invention was previously known or embodied in a single prior art device or practice.

- 5. No claims are allowed.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to N. M. Minnifield whose telephone number is 703-305-3394. The examiner can normally be reached on M-F (8:00-5:30) Second Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynette R.F. Smith can be reached on 703-308-3909. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-4556 for regular communications and 703-308-4556 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0196.

Primary Examiner